



# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 201075**

**TO: Alton Pryor**  
**Location: REM/4A39/4C70**  
**Art Unit: 1616**  
**Monday, September 11, 2006**  
**Case Serial Number: 10/536517**

**From: Barb O'Bryen**  
**Location: Biotech-Chem Library**  
**Remsen 1a69**  
**Phone: 571-272-2518** *BoSB*

**barbara.obryen@uspto.gov**

### **Search Notes**

BARK

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ACCESS DB # 201075

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Scientific and Technical Information Center

## SEARCH REQUEST FORM

MICHAEL P. WOODWARD

SUPERVISORY PATENT EXAMINER

Requesting Full Name: John PryorExaminer #: 74458Date: 9/7/06Art Unit: 1616Phone Number: 2-0621Serial Number: 10/536,517Location (Bldg/Room#): 4REM39 (Mailbox #): 49EMC70 Results Format Preferred (circle): PAPER DISK

\*\*\*\*\*

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): Salmon, R Langton, D

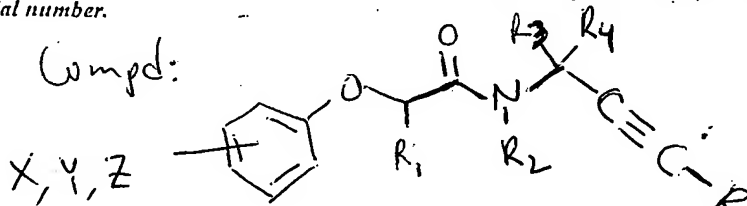
Earliest Priority Date: \_\_\_\_\_

## Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Search Compd:



- a) X, Y, Z (at least one is other than "H")
- b) R<sub>1</sub> = Alkoxyalkyl-, Alkthioalkyl-
- c) R<sub>3</sub> = R<sub>4</sub> at least one of which is other than "H"
- or
- R<sub>3</sub> and R<sub>4</sub> together forms a 3 or 4 membered carbocyclic ring optionally containing one "O", "S" or "N"

See claim 1 attached

# STIC SEARCH RESULTS FEEDBACK FORM

## Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher or contact:*

Mary Hale, Information Branch Supervisor  
571-272-2507 Remsen 1 A51

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/Biotech-Chem Library Remsen Bldg.

=> fil capl agricola caba biosis wpix; d que 15  
 FILE 'CAPLUS' ENTERED AT 11:25:58 ON 11 SEP 2006  
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*inventor search*

L1 940 SEA SALMON R?/AU  
 L2 35 SEA LANGTON D?/AU  
 L5 5 SEA L1 AND L2

=> dup rem 15  
 PROCESSING COMPLETED FOR L5  
 L41 3 DUP REM L5 (2 DUPLICATES REMOVED)  
 ANSWERS '1-2' FROM FILE CAPLUS  
 ANSWER '3' FROM FILE WPIX

=> d iall 1-3

L41 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1  
 ACCESSION NUMBER: 2006:542801 CAPLUS  
 DOCUMENT NUMBER: 145:27874  
 ENTRY DATE: Entered STN: 09 Jun 2006  
 TITLE: Preparation of (hetero)aryloxyacetamides as  
 agrochemical fungicides.  
 INVENTOR(S): Salmon, Roger; Bacon, David Philip;  
 Chrystal, Ewan James Turner; Langton, David  
 William; Knee, Andrew Jonathan; Munns, Gordon  
 Richard; Quaranta, Laura; Brunner, Hans-Georg;  
 Beaudegnies, Renaud; Cederbaum, Fredrik; Murphy  
 Kessabi, Fiona  
 PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.; Syngenta Ltd.  
 SOURCE: PCT Int. Appl., 119 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 CLASSIFICATION: 27-16 (Heterocyclic Compounds (One Hetero Atom))  
 Section cross-reference(s): 5, 25, 28  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006058700	A1	20060608	WO 2005-EP12735	20051129
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,				

MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,  
 SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,  
 VN, YU, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

GB 2004-26373

A 20041201

PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2006058700	IPCI	C07D0409-12 [I,A]; C07D0409-00 [I,C*]; C07D0307-91 [I,A]; C07D0307-00 [I,C*]; C07D0277-68 [I,A]; C07D0277-00 [I,C*]; C07D0215-20 [I,A]; C07D0215-00 [I,C*]; C07D0213-65 [I,A]; C07D0213-00 [I,C*]; C07C0323-22 [I,A]; C07C0323-00 [I,C*]; A01N0043-12 [I,A]; A01N0043-02 [I,C*]; A01N0043-40 [I,A]; A01N0043-42 [I,A]; A01N0043-34 [I,C*]; A01N0043-78 [I,A]; A01N0043-72 [I,C*]; A01N0039-04 [I,A]; A01N0039-00 [I,C*]
	ECLA	C07C323/60

OTHER SOURCE(S):

MARPAT 145:27874

ABSTRACT:

ArOCH(SOnR1)C(:L)NR2R3 [Ar = (substituted) (hetero)aryl, (hetero)cyclyl; R1 = alkyl, haloalkyl, cycloalkyl; R2 = H, alkyl, cycloalkyl, alkenyl, cyanoalkyl, alkoxyalkyl, alkoxyalkoxyalkyl, (substituted) benzyloxyalkyl; R3 = (CRaRb)p(CRcRd)qXr(CReRf)sR4; Ra-Rf = H, alkyl, halo, cyano, OH, alkoxy, alkoxy carbonyl; X = CO, CO2, O, S, SO, SO2, imino; L = 0, S; p, r, s = 0, 1; n, q = 0-2], were prepared Thus, 5-chloro-3-hydroxypyridine, Et 2-bromo-2-methylthioacetate (preparation given), and K2CO3 were heated together in DMF at 80° for 1 h to give Et 2-(5-chloropyrid-3-yloxy)-2-methylthioacetate. The latter was saponified with NaOH in THF/H2O and the resulting acid was condensed with tert-butylamine to give 2-(5-chloropyridyl-3-yloxy)-2-methylthio-N-(2-methylprop-2-yl)acetamide. Numerous title compds. at 200 ppm gave ≥60% control of Plasmopara viticola on grapevine leaf disks.

SUPPL. TERM:

heteroaryloxyacetamide prepn agrochem fungicide;  
 alkylthioaryloxyacetamide prepn agrochem fungicide

INDEX TERM:

Fungicides  
 Fungicides  
 (agrochem.; preparation of (hetero)aryloxyacetamides as agrochem. fungicides)

INDEX TERM:

889661-61-4	889661-62-5	889661-63-6	889661-64-7
889661-65-8	889661-66-9	889661-67-0	889661-68-1
889661-69-2	889661-70-5	889661-71-6	889661-72-7
889661-73-8	889661-74-9	889661-75-0	889661-76-1
889661-77-2	889661-78-3	889661-79-4	889661-80-7
889661-81-8	889661-82-9	889661-83-0	889661-84-1
889661-85-2	889661-86-3	889661-87-4	889661-88-5
889661-90-9	889661-92-1	889661-94-3	889661-96-5
889661-98-7	889662-00-4	889662-02-6	889662-04-8
889662-06-0	889662-08-2	889662-10-6	889662-12-8
889662-14-0	889662-16-2	889662-18-4	889662-20-8
889662-22-0	889662-23-1	889662-24-2	889662-25-3
889662-26-4	889662-27-5	889662-28-6	889662-29-7
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889662-34-4	889662-35-5	889662-36-6	889662-37-7
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 889662-58-2 889662-59-3 889662-60-6 889662-61-7  
 889662-62-8

ROLE: AGR (Agricultural use); BSU (Biological study,  
 unclassified); BIOL (Biological study); USES (Uses)  
 (preparation of (hetero)aryloxyacetamides as agrochem.  
 fungicides)

INDEX TERM: 889660-84-8P 889660-85-9P  
 ROLE: AGR (Agricultural use); BSU (Biological study,  
 unclassified); RCT (Reactant); SPN (Synthetic preparation);  
 BIOL (Biological study); PREP (Preparation); RACT (Reactant  
 or reagent); USES (Uses)

(preparation of (hetero)aryloxyacetamides as agrochem.  
 fungicides)

INDEX TERM: 889660-01-9P 889660-02-0P 889660-03-1P 889660-04-2P  
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 889660-09-7P 889660-10-0P 889660-11-1P 889660-12-2P  
 889660-13-3P 889660-14-4P 889660-15-5P 889660-16-6P  
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 889661-55-6P 889661-56-7P 889661-57-8P 889661-58-9P  
 889661-59-0P 889661-60-3P

ROLE: AGR (Agricultural use); BSU (Biological study,  
 unclassified); SPN (Synthetic preparation); BIOL (Biological  
 study); PREP (Preparation); USES (Uses)  
 (preparation of (hetero)aryloxyacetamides as agrochem.  
 fungicides)

INDEX TERM: 75-64-9, tert-Butylamine, reactions 86-77-1,  
 2-Dibenzofuranol 96-50-4, Thiazol-2-ylamine 98-80-6,  
 Phenylboronic acid 100-46-9, Benzylamine, reactions  
 107-11-9, Allylamine 109-89-7, Diethylamine, reactions  
 124-40-3, Dimethylamine, reactions 124-41-4, Sodium  
 methoxide 371-40-4, 4-Fluoroaniline 527-54-8,

3,4,5-Trimethylphenol 585-32-0 617-89-0,  
 2-Aminomethylfuran 812-18-0 1692-15-5,  
 Pyridine-4-boronic acid 1747-60-0, 2-Amino-6-methoxybenzothiazole 1885-29-6, 2-Cyanoaniline 2450-71-7, Propargylamine 3399-73-3, 1-Cyclohexene-1-ethanamine 4455-13-4, Ethyl 2-methylthioacetate 6293-83-0, 2-Iodo-4-nitroaniline 13669-57-3, 3-Bromo-6-hydroxyquinoline 13893-53-3 14036-96-5, 3-Bromo-6-methoxyquinoline 18166-02-4 19355-69-2 20719-68-0 26944-17-2, 2,2,3-Tribromopropanal 27757-85-3, (Thien-2-ylmethyl)amine 31914-32-6, 4-Amino-4-methylpent-2-yne 36567-04-1 42514-50-1 58537-99-8, 4-Cyano-3,5-dimethylphenol 73121-95-6, Di(cyclopropyl)amine 74115-12-1, 5-Chloro-3-hydroxypyridine 86544-43-6, 3-Bromo-6-methoxyquinolin-8-ylamine 92752-01-7 117460-98-7 196311-65-6, (1-Cyanocyclopropyl)amine 696611-46-8, 3,8-Dibromo-6-nitroquinoline 706790-28-5, tert-Butyl 2-bromo-2-(3,5-dichlorophenoxy)acetate 792855-86-8 808755-82-0, 6-Amino-3-bromo-8-chloroquinoline 858467-31-9 889660-83-7

ROLE: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of (hetero)aryloxyacetamides as agrochem. fungicides)

## INDEX TERM:

2942-13-4P, 6-Methoxybenzothiazole 13599-84-3P,  
 6-Hydroxybenzothiazole 29507-86-6P,  
 3-Amino-6-methoxyquinoline 56078-31-0P, Ethyl  
 2-chloro-2-methylthio-acetate 100108-01-8P, Ethyl  
 2-bromo-2-methylthio-acetate 251660-96-5P 426842-85-5P,  
 3-Fluoro-6-methoxyquinoline 696611-70-8P,  
 6-Amino-3,8-dibromoquinoline 696611-81-1P,  
 3,8-Dibromo-6-hydroxyquinoline 696612-04-1P,  
 3-Chloro-6-hydroxyquinoline 808754-96-3P, tert-Butyl  
 2-methylthio-2-(3,5-dichlorophenoxy)acetate 808754-97-4P,  
 2-Methylthio-2-(3,5-dichlorophenoxy)acetic acid  
 808754-98-5P, 2-((Benzothiazol-6-yl)oxy)-2-(methylthio)acetic acid 808755-00-2P, 2-((5-Chloropyridyl-3-yl)oxy)-2-(methylthio)acetic acid 808755-06-8P, Ethyl  
 2-((5-chloropyridyl-3-yl)oxy)-2-(methylthio)acetate  
 808755-07-9P, 2-((3-Bromoquinolin-6-yl)oxy)-2-(methylthio)acetic acid 808755-18-2P, Ethyl  
 2-((benzothiazol-6-yl)oxy)-2-(methylthio)acetate  
 808755-47-7P, Ethyl 2-((3,8-dibromoquinolin-6-yl)oxy)-2-(methylthio)acetate 808755-48-8P, 2-((3,8-Dibromoquinolin-6-yl)oxy)-2-(methylthio)acetic acid 808755-49-9P  
 808755-50-2P, Ethyl 2-((3-bromoquinolin-6-yl)oxy)-2-(methylthio)acetate 808755-53-5P, 3-Fluoro-6-hydroxyquinoline 808755-54-6P, Ethyl ((3-fluoroquinolin-6-yl)oxy)-2-(methylthio)acetate 808755-83-1P,  
 3-Bromo-8-chloro-6-hydroxyquinoline 808755-84-2P, Ethyl  
 2-((3-bromo-8-chloroquinolin-6-yl)oxy)-2-(methylthio)acetate  
 808755-85-3P, 2-((3-Bromo-8-chloroquinolin-6-yl)oxy)-2-(methylthio)acetic acid 889660-53-1P, Ethyl  
 2-methylthio-2-(3,4,5-trimethylphenoxy)acetate  
 889660-54-2P, 2-Methylthio-2-(3,4,5-trimethylphenoxy)acetate  
 889660-55-3P, Ethyl 2-methylthio-2-(4-bromo-3,5-dimethylphenoxy)acetate 889660-56-4P, Ethyl  
 2-methylthio-2-(4-cyano-3,5-dimethylphenoxy)acetate  
 889660-57-5P, 2-Methylthio-2-(4-bromo-3,5-dimethylphenoxy)acetic acid 889660-58-6P,

2-Methylthio-2-(4-cyano-3,5-dimethylphenoxy)acetic acid  
 889660-59-7P, Ethyl 2-((3-chloroquinolin-6-yl)oxy)-2-  
 (methylthio)acetate 889660-60-0P, 2-((3-Chloroquinolin-6-  
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 889660-62-2P, ((3-Fluoroquinolin-6-yl)oxy)-2-  
 (methylthio)acetic acid 889660-63-3P 889660-64-4P  
 889660-65-5P, 3-Bromo-6-hydroxy-8-methylquinoline  
 889660-66-6P, Ethyl 2-((3-bromo-8-methylquinolin-6-yl)oxy)-2-  
 (methylthio)acetate 889660-67-7P, 2-((3-Bromo-8-  
 methylquinolin-6-yl)oxy)-2-(methylthio)acetic acid  
 889660-68-8P, 3-Iodo-6-hydroxyquinoline 889660-69-9P,  
 3-Bromo-8-fluoroquinolin-6-ol 889660-70-2P,  
 3-Bromo-8-fluoro-6-methoxyquinoline 889660-71-3P,  
 2-((3-Bromo-8-fluoroquinolin-6-yl)oxy)-2-(methylthio)acetic  
 acid ethyl ester 889660-72-4P, 2-((3-Bromo-8-  
 fluoroquinolin-6-yl)oxy)-2-(methylthio)acetic acid  
 889660-73-5P, 3-Iodo-8-methylquinolin-6-ol 889660-74-6P,  
 2-((3-Iodo-8-methylquinolin-6-yl)oxy)-2-(methylthio)acetic  
 acid ethyl ester 889660-75-7P, 2-((3-Iodo-8-methylquinolin-  
 6-yl)oxy)-2-(methylthio)acetic acid 889660-76-8P,  
 3-Bromo-8-iodo-6-nitroquinoline 889660-77-9P,  
 3-Bromo-8-iodoquinolin-6-ylamine 889660-78-0P,  
 3-Bromo-8-iodoquinolin-6-ol 889660-79-1P,  
 2-((3-Bromo-8-iodoquinolin-6-yl)oxy)-2-(methylthio)acetic  
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 889660-82-6P 889660-86-0P, 2-((3-Iodoquinolin-6-yl)oxy)-2-  
 (methylthio)acetic acid

ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation of (hetero)aryloxyacetamides as agrochem.  
 fungicides)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD.

REFERENCE(S): (1) Anon; PATENT ABSTRACTS OF JAPAN 1994, V018(532), PP-1810  
 (2) Crowley, P; WO 2004047538 A 2004 CAPLUS  
 (3) Crowley, P; WO 2004048337 A 2004 CAPLUS  
 (4) Crowley, P; WO 2004052100 A 2004 CAPLUS  
 (5) Crowley, P; WO 2004108663 A 2004 CAPLUS  
 (6) Konica Corp; JP 06186702 A 1994 CAPLUS

L41 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2  
 ACCESSION NUMBER: 2004:467847 CAPLUS  
 DOCUMENT NUMBER: 141:38429  
 ENTRY DATE: Entered STN: 10 Jun 2004  
 TITLE: Preparation of N-alkynyl-2-(substituted phenoxy)  
 alkylamides as fungicides  
 INVENTOR(S): Salmon, Roger; Langton, David  
 William  
 PATENT ASSIGNEE(S): Syngenta Limited, UK  
 SOURCE: PCT Int. Appl., 57 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 INT. PATENT CLASSIF.:  
 MAIN: C07C235-20  
 SECONDARY: A01N039-04  
 CLASSIFICATION: 25-10 (Benzene, Its Derivatives, and Condensed  
 Benzenoid Compounds)  
 Section cross-reference(s): 5



FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

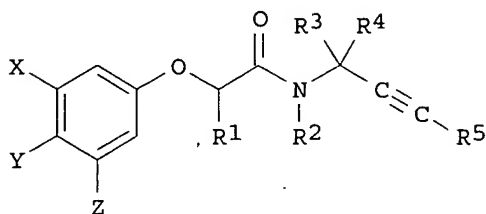
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004048316	A1	20040610	WO 2003-GB4834	20031110
W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW	
RW:			BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	
CA 2502189	AA	20040610	CA 2003-2502189	20031110
AU 2003279471	A1	20040618	AU 2003-279471	20031110
EP 1567480	A1	20050831	EP 2003-772420	20031110
R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK	
BR 2003016500	A	20051004	BR 2003-16500	20031110
CN 1717387	A	20060104	CN 2003-80104084	20031110
JP 2006507341	T2	20060302	JP 2004-554643	20031110
US 2006194763	A1	20060831	US 2006-536517	20060306
PRIORITY APPLN. INFO.:			GB 2002-27556	A 20021126
			WO 2003-GB4834	W 20031110

## PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004048316	ICM	C07C235-20
	ICS	A01N039-04
	IPCI	C07C0235-20 [ICM,7]; C07C0235-00 [ICM,7,C*]; A01N0039-04 [ICS,7]; A01N0039-00 [ICS,7,C*]
	IPCR	A01N0039-00 [I,C*]; A01N0039-02 [I,A]; A01N0039-04 [I,A]; C07C0235-00 [I,C*]; C07C0235-20 [I,A]
	ECLA	A01N039/02; A01N039/04; C07C235/20
CA 2502189	IPCI	C07C0235-20 [ICM,7]; C07C0235-00 [ICM,7,C*]; A01N0039-04 [ICS,7]; A01N0039-00 [ICS,7,C*]
	IPCR	A01N0039-00 [I,C*]; A01N0039-02 [I,A]; A01N0039-04 [I,A]; C07C0235-00 [I,C*]; C07C0235-20 [I,A]
	ECLA	A01N039/02; A01N039/04; C07C235/20
AU 2003279471	IPCI	C07C0235-20 [ICM,7]; C07C0235-00 [ICM,7,C*]; A01N0039-04 [ICS,7]; A01N0039-00 [ICS,7,C*]
	IPCR	A01N0039-00 [I,C*]; A01N0039-02 [I,A]; A01N0039-04 [I,A]; C07C0235-00 [I,C*]; C07C0235-20 [I,A]
EP 1567480	IPCI	C07C0235-20 [ICM,7]; C07C0235-00 [ICM,7,C*]; A01N0039-04 [ICS,7]; A01N0039-00 [ICS,7,C*]
	IPCR	A01N0039-00 [I,C*]; A01N0039-02 [I,A]; A01N0039-04 [I,A]; C07C0235-00 [I,C*]; C07C0235-20 [I,A]
	ECLA	A01N039/02; A01N039/04; C07C235/20
BR 2003016500	IPCI	C07C0235-20 [ICM,7]; C07C0235-00 [ICM,7,C*]; A01N0039-04 [ICS,7]; A01N0039-00 [ICS,7,C*]
	IPCR	A01N0039-00 [I,C*]; A01N0039-02 [I,A]; A01N0039-04 [I,A]; C07C0235-00 [I,C*]; C07C0235-20 [I,A]
CN 1717387	IPCI	C07C0235-20 [I,A]; C07C0235-00 [I,C*]; A01N0039-04 [I,A]; A01N0039-00 [I,C*]
	ECLA	A01N039/02; A01N039/04; C07C235/20
JP 2006507341	IPCI	C07C0235-20 [I,A]; C07C0235-00 [I,C*]; A01N0039-04 [I,A]; A01N0039-00 [I,C*]; C07C0231-02 [I,A];

C07C0231-00 [I,C\*]; C07C0253-30 [I,A]; C07C0253-00 [I,C\*]; C07C0255-54 [I,A]; C07C0255-00 [I,C\*]  
 FTERM 4H006/AA01; 4H006/AA02; 4H006/AA03; 4H006/AB03;  
 4H006/AC53; 4H006/BA51; 4H006/BA92; 4H006/BJ50;  
 4H006/BM30; 4H006/BM72; 4H006/BP10; 4H006/BR10;  
 4H006/BV22; 4H011/AA01; 4H011/BB06  
 US 2006194763 IPCI A01N0043-00 [I,A]; A01N0043-64 [I,A]; A01N0043-40 [I,A]; A01N0043-34 [I,C\*]  
 NCL 514/063.000; 514/383.000; 514/621.000; 514/521.000;  
 514/210.010; 514/212.010; 514/317.000; 514/408.000;  
 540/600.000; 546/229.000

OTHER SOURCE(S):  
 GRAPHIC IMAGE:



ABSTRACT:

The title compds. [I; X, Y, Z = H, halo, alkyl, etc.; R1 = alkoxyalkyl, alkylthioalkyl, alkylsulfinylalkyl, alkylsulfonylalkyl in which the total number of carbon atoms is 2 or 3; R2 = H, alkyl, alkoxymethyl, benzyloxymethyl in which Ph ring is optionally substituted with alkoxy; R3, R4 = H, alkyl, alkenyl, alkynyl; CR3R4 = (un)substituted 3-4 membered carbocyclic ring optionally containing one O, S or N atom; R5 = H, (un)substituted alkyl, cycloalkyl, Ph, thienyl, CH2Ph], were prepared E.g., a multi-step synthesis of I [X, Z = Cl; Y = H; R1 = CH2OMe; R2 = H; R3-R5 = Me] which showed at least 70% control of the following fungal infections at 200 ppm: Phytophthora infestans, Plasmopara viticola, Erysiphe graminis f.sp. hordei, and at least 70% control at 20 ppm against Pythium ultimum, was given.

SUPPL. TERM: alkynyl phenoxy alkylamide prepn agrochem fungicide; amide  
 alkynyl phenoxy prepn agrochem fungicide.  
 INDEX TERM: Fungicides  
 (agrochem.; preparation of N-alkynyl-2-(substituted phenoxy)  
 alkylamides as fungicides)  
 INDEX TERM: Amides, preparation  
 ROLE: AGR (Agricultural use); BSU (Biological study,  
 unclassified); SPN (Synthetic preparation); BIOL (Biological  
 study); PREP (Preparation); USES (Uses)  
 (preparation of N-alkynyl-2-(substituted phenoxy) alkylamides  
 as fungicides)  
 INDEX TERM: 701915-84-6P 701915-85-7P 701915-86-8P 701915-87-9P  
 701915-88-0P 701915-89-1P  
 ROLE: AGR (Agricultural use); BSU (Biological study,  
 unclassified); SPN (Synthetic preparation); BIOL (Biological  
 study); PREP (Preparation); USES (Uses)  
 (preparation of N-alkynyl-2-(substituted phenoxy) alkylamides  
 as fungicides)  
 INDEX TERM: 527-54-8, 3,4,5-Trimethylphenol 591-35-5,  
 3,5-Dichlorophenol 1729-67-5, Methyl 2,3-dibromopropionate  
 2978-58-7, 3-Amino-3-methylbutyne 13528-93-3,

1,2-Bis(chlorodimethylsilyl)ethane 124993-53-9,  
3-Cyano-5-methoxyphenol  
ROLE: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of N-alkynyl-2-(substituted phenoxy) alkylamides  
as fungicides)

INDEX TERM: 5933-08-4P, 4-Amino-4-methylpent-2-yne hydrochloride  
27704-96-7P, Methyl 2-bromo-3-methoxypropionate  
65090-78-0P, 2-Bromo-3-methoxypropionic acid 96908-79-1P,  
1-(1,1-Dimethyl-2-propynyl)-2,2,5,5-tetramethyl-1-aza-2,5-  
disilacyclopentane 543690-51-3P, 1-(1,1-Dimethyl-2-  
butynyl)-2,2,5,5-tetramethyl-1-aza-2,5-disilacyclopentane  
543690-80-8P 543691-07-2P 543691-09-4P 543691-10-7P  
701915-90-4P, Methyl 2-(3,5-dichlorophenoxy)-3-  
methoxypropionate 701915-91-5P, 2-(3,5-Dichlorophenoxy)-3-  
methoxypropionic acid  
ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation of N-alkynyl-2-(substituted phenoxy) alkylamides  
as fungicides)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS  
RECORD.

REFERENCE(S): (1) Anon; PATENT ABSTRACTS OF JAPAN 1992, V016(180), PC-0935  
(2) Baker, D; US 4049423 A 1977 CAPLUS  
(3) Basf Ag; EP 0010298 A 1980 CAPLUS  
(4) Hoechst Ag; DE 2948095 A 1981 CAPLUS  
(5) Nihon Nohyaku Co Ltd; EP 0751120 A 1997 CAPLUS  
(6) Shell Agrar Gmbh & Co Kg; DE 3702964 A 1988 CAPLUS  
(7) Stauffer Chemical Co; FR 2359816 A 1978 CAPLUS  
(8) Stauffer Chemical Co; EP 0001721 A 1979 CAPLUS  
(9) Stauffer Chemical Co; US 4168319 A 1979 CAPLUS  
(10) Tokuyama Soda Co Ltd; JP 04021677 A 1992 CAPLUS

L41 ANSWER 3 OF 3 WPIX COPYRIGHT 2006 THE THOMSON CORP on STN

ACCESSION NUMBER: 2005-048517 [05] WPIX

DOC. NO. CPI: C2005-016590

TITLE: New N-alkynyl-2-(substituted aryloxy) alkylthioamide  
derivatives, useful to combat or control phytopathogenic  
fungi in e.g. plant, seed of a plant and locus of the  
plant.

DERWENT CLASS: C02 C03

INVENTOR(S): BACON, D P; CROWLEY, P J; LANGFORD, D W; SAGEOT, O A;  
SALMON, R; LANGTON, D W

PATENT ASSIGNEE(S): (SYGN) SYNGENTA LTD

COUNTRY COUNT: 109

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC															
WO 2004108663	A1	20041216	(200505)*	EN	131	C07C323-22																
RW:	AT	BE	BG	BW	CH	CY	CZ	DE	DK	EA	EE	ES	FI	FR	GB	GH	GM	GR	HU	IE	IT	KE
	LS	LU	MC	MW	MZ	NA	NL	OA	PL	PT	RO	SD	SE	SI	SK	SL	SZ	TR	TZ	UG	ZM	ZW
W:	AE	AG	AL	AM	AT	AU	AZ	BA	BB	BG	BR	BW	BY	BZ	CA	CH	CN	CO	CR	CU	CZ	DE
	DK	DM	DZ	EC	EE	EG	ES	FI	GB	GD	GE	GH	GM	HR	HU	ID	IL	IN	IS	JP	KE	KG
	KP	KR	KZ	LC	LK	LR	LS	LT	LU	LV	MA	MD	MG	MK	MN	MW	MX	MZ	NA	NI	NO	NZ
	OM	PG	PH	PL	PT	RO	RU	SC	SD	SE	SG	SK	SL	SY	TJ	TM	TN	TR	TT	TZ	UA	UG
	US	UZ	VC	VN	YU	ZA	ZM	ZW														
EP 1638928	A1	20060329	(200623)	EN		C07C323-22																
R:	AT	BE	BG	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GR	HU	IE	IT	LI	LU	MC	NL	PL
	PT	RO	SE	SI	SK	TR																
AU 2004245282	A1	20041216	(200637)			C07C323-22																

BR 2004010995	A	20060704 (200645)	C07C323-22
MX 2005013039	A1	20060301 (200649)	A01N043-40

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2004108663	A1	WO 2004-GB2294	20040528
EP 1638928	A1	EP 2004-735260	20040528
		WO 2004-GB2294	20040528
AU 2004245282	A1	AU 2004-245282	20040528
BR 2004010995	A	BR 2004-10995	20040528
		WO 2004-GB2294	20040528
MX 2005013039	A1	WO 2004-GB2294	20040528
		MX 2005-13039	20051202

FILING DETAILS:

PATENT NO	KIND	PATENT NO
EP 1638928	A1 Based on	WO 2004108663
AU 2004245282	A1 Based on	WO 2004108663
BR 2004010995	A Based on	WO 2004108663
MX 2005013039	A1 Based on	WO 2004108663

PRIORITY APPLN. INFO: GB 2003-12863 20030604

INT. PATENT CLASSIF.:

MAIN: A01N043-40; C07C323-22  
 SECONDARY: C07C323-29; C07D213-16; C07D215-02; C07D235-06;  
 C07D265-14; C07D271-12; C07D285-00

BASIC ABSTRACT:

WO2004108663 A UPAB: 20050124  
 NOVELTY - N-Alkynyl-2-(substituted aryloxy) alkylthioamide derivatives (I) are new.

DETAILED DESCRIPTION - N-Alkynyl-2-(substituted aryloxy) alkylthioamide derivatives of formula (I) are new.

Ar = e.g. structure of formula (A);  
 A1, A2, A3 = H, halo, (halo)1-4C alkyl ((optionally substituted with halo, OSO2(1-4C) alkyl (optionally substituted with 1-4C akoxycarbonyl, CONRmRn, CORm, NRmCORn, SO2NRmRn, NRmSO2R1, halo, CN or NO2)), (halo) 2-4C alkenyl, (halo) 2-4C alkynyl, (halo) 1-4C alkoxy or S(O)m 1-4C alkyl;  
 R1 = 1-4C alkyl;  
 R-m, R-n = H or 1-4C alkyl;  
 L, M = N, N-oxide or CQ (except that no more than one of L or M is N-oxide);  
 R1 = methyl or ethyl, 1-6C alkyl;  
 R2 = H, 1-4C alkyl, 1-4C alkoxyethyl or benzyloxymethyl (the phenyl ring of the benzyl moiety is optionally substituted with 1-4C alkoxy);  
 R3, R4 = H, 1-3C alkyl, 2-3C alkenyl and 2-3C alkynyl;  
 CR3R4 = 3 or 4 membered carbocyclic ring optionally containing one O, S or N atom, optionally substituted with halo or C1-4 alkyl;  
 R5 = 1-4C alkyl or 3-6C cycloalkyl (optionally substituted with halo, OH, 1-6C alkoxy, CN, 1-4C alkylcarbonyloxy, aminocarbonyloxy or mono- or di-1-4C alkylaminocarbonyloxy, S(O)p1-6C alkyl), H, phenyl, thienyl or benzyl (all optionally substituted), optionally substituted phenyl, thienyl rings or moieties of the R5 values are optionally substituted with 1-3 substituents of halo, OH, mercapto, 1-4C alkyl, 2-4C alkenyl, 2-4C alkynyl, 1-4C alkoxy, 2-4C alkenyloxy, 2-4C alkynyloxy, halo1-4C alkyl, halo1-4C alkoxy, 1-4C alkylthio, halo1-4C alkylthio, hydroxy1-4C alkyl, 1-4C alkoxy1-4C alkyl, 3-6C cycloalkyl, 3-6C

cycloalkyl1-4Calkyl, phenoxy, benzyloxy, benzoyloxy, CN, isocyano, thiocyanato, isothiocyanato, NO<sub>2</sub>, NR-pR-q, NHCOR-p, NHCONR-pR-q, CONR-pR-q, SO<sub>2</sub>R-o, OSO<sub>2</sub>R-o, COR-p, CR-p=NR-q or -N=CR-pR-q;

p = 0-2, triazolyl, pyrazolyl, imidazolyl, tri-1-4C-alkylsilyloxy ((optionally substituted phenoxy, optionally substituted thienyloxy (optionally substituted benzyloxy or thienylmethoxy);

R-o = (halo)1-4Calkyl, (halo)1-4Calkoxy, 1-4C alkylthio, 3-6C cycloalkyl, 3-6C cycloalkyl1-4Calkyl, phenyl or benzyl, the phenyl, benzyl (optionally substituted with halo, 1-4C alkyl or 1-4C alkoxy);

R-p, R-q = H, 1-4C alkyl, halo1-4Calkyl, (halo)1-4Calkoxy, 1-4C alkylthio, 3-6C cycloalkyl, 3-6C cycloalkyl1-4Calkyl, phenyl or enzy, the phenyl or benzyl (optionally substituted with halo, 1-4C alkyl or 1-4C alkoxy); and

m, n = 0-2.

Provided that R<sub>3</sub>, R<sub>4</sub> are not H and when both are other than H, when combined total of carbon atoms does not exceed 4.

An INDEPENDENT CLAIM is also included for the preparation of (I).

ACTIVITY - Fungicide; Herbicide; Insecticide; Acaricide.

The fungicidal activity of (I) (20 ppm) was assessed against Pythium ultimum. The result showed that the percentage control of the fungi was at least 60%.

MECHANISM OF ACTION - None given.

USE - Compounds (I) are useful to combat or control phytopathogenic fungi in a plant, seed of a plant, in the locus of the plant or seed or in soil or any other plant growth medium (claimed). (I) are also useful to control pathogens e.g. Pyricularia oryzae on a plant. (I) are further useful as herbicidal, insecticidal, nematocidal or acaricidal agent.

Dwg.0/0

FILE SEGMENT:	CPI
FIELD AVAILABILITY:	AB; GI; DCN
MANUAL CODES:	CPI: C06-H; C07-H; C10-A03; C10-A09B; C10-A10; C10-A15; C10-B04; C10-D03; C14-A06; C14-B03A; C14-B04; C14-V01

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FILE 'REGISTRY' ENTERED AT 11:26:32 ON 11 SEP 2006  
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STRUCTURE FILE UPDATES: 10 SEP 2006 HIGHEST RN 906318-57-8  
DICTIONARY FILE UPDATES: 10 SEP 2006 HIGHEST RN 906318-57-8

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

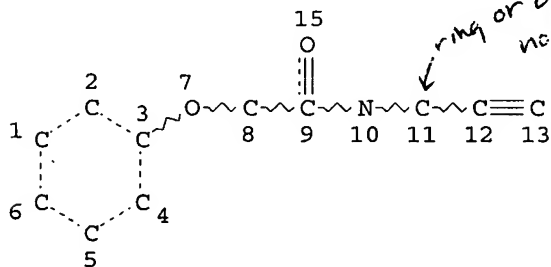
Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

L10

STR



NODE ATTRIBUTES:

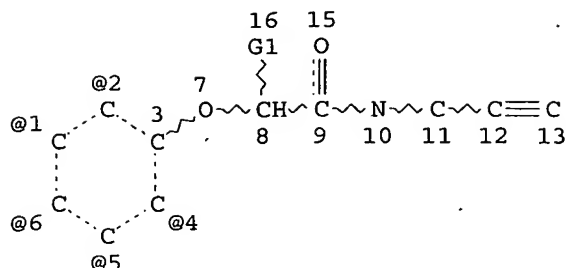
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DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L15 261 SEA FILE=REGISTRY SSS FUL L10  
L18 STR



Ak~O~Ak  
@17 18 19

Ak~S~Ak  
@20 21 22

A @23 A = any non-hydrogen atom, ring or chain

*subset search done on this structure*

VAR G1=17/20  
VPA 23-1/2/4/5/6 U  
NODE ATTRIBUTES:  
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NSPEC IS RC AT 23  
CONNECT IS E2 RC AT 17  
CONNECT IS E1 RC AT 19  
CONNECT IS E2 RC AT 20  
CONNECT IS E1 RC AT 22  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE  
L20 6 SEA FILE=REGISTRY SUB=L15 SSS FUL L18

100.0% PROCESSED 157 ITERATIONS  
SEARCH TIME: 00.00.01

6 ANSWERS

=> fil capl; s l20  
FILE 'CAPLUS' ENTERED AT 11:26:41 ON 11 SEP 2006  
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FILE COVERS 1907 - 11 Sep 2006 VOL 145 ISS 12  
FILE LAST UPDATED: 10 Sep 2006 (20060910/ED)

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'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

L42

1 L20



=> fil marpat; d stat que l35  
 FILE 'MARPAT' ENTERED AT 11:27:08 ON 11 SEP 2006  
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FILE CONTENT: 1961-PRESENT VOL 145 ISS 11 (20060908/ED)

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MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES  
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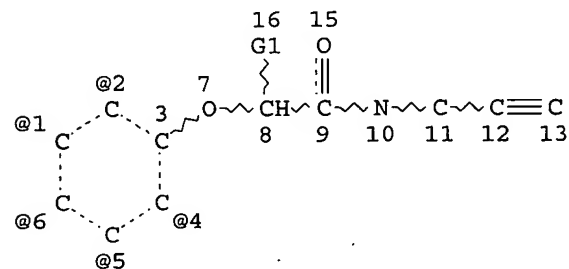
US 2006173222 03 AUG 2006  
 DE 102004060247 29 JUN 2006  
 EP 1674581 28 JUN 2006  
 JP 2006173552 29 JUN 2006  
 WO 2006084934 17 AUG 2006  
 GB 2421183 21 JUN 2006  
 FR 2879932 30 JUN 2006  
 RU 2278134 20 JUN 2006  
 CA 2514007 16 JUN 2006

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L32

STR



Ak~O~Ak  
 @17 18 19

Ak~S~Ak  
 @20 21 22

A @23

VAR G1=17/20  
 VPA 23-1/2/4/5/6 U  
 NODE ATTRIBUTES:  
 NSPEC IS RC AT 11  
 NSPEC IS RC AT 23  
 CONNECT IS E2 RC AT 17  
 CONNECT IS E1 RC AT 19  
 CONNECT IS E2 RC AT 20  
 CONNECT IS E1 RC AT 22  
 DEFAULT MLEVEL IS ATOM  
 MLEVEL IS CLASS AT 17 19 20 22 23  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE

L34 8 SEA FILE=MARPAT SSS FUL L32  
L35 4 SEA FILE=MARPAT ABB=ON L34/COMPLETE

=> dup rem 142,135

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PROCESSING COMPLETED FOR L42  
PROCESSING COMPLETED FOR L35  
L43 4 DUP REM L42 L35 (1 DUPLICATE REMOVED)  
ANSWER '1' FROM FILE CAPLUS  
ANSWERS '2-4' FROM FILE MARPAT

=> d ibib ed abs hitstr 1; d ibib abs qhit 2-4

L43 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1  
ACCESSION NUMBER: 2004:467847 CAPLUS  
DOCUMENT NUMBER: 141:38429  
TITLE: Preparation of N-alkynyl-2-(substituted phenoxy)  
alkylamides as fungicides  
INVENTOR(S): Salmon, Roger; Langton, David William  
PATENT ASSIGNEE(S): Syngenta Limited, UK  
SOURCE: PCT Int. Appl., 57 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

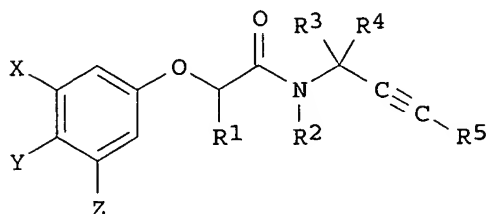
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004048316	A1	20040610	WO 2003-GB4834	20031110
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GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				
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TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:				
BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,				
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ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,				
TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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AU 2003279471	A1	20040618	AU 2003-279471	20031110
EP 1567480	A1	20050831	EP 2003-772420	20031110
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BR 2003016500	A	20051004	BR 2003-16500	20031110
CN 1717387	A	20060104	CN 2003-80104084	20031110

JP 2006507341 T2 20060302 JP 2004-554643 20031110  
US 2006194763 A1 20060831 US 2006-536517 20060306  
PRIORITY APPLN. INFO.: GB 2002-27556 A 20021126  
WO 2003-GB4834 W 20031110

OTHER SOURCE(S): MARPAT 141:38429

ED Entered STN: 10 Jun 2004

GI



I

AB The title compds. [I; X, Y, Z = H, halo, alkyl, etc.; R1 = alkoxyalkyl, alkylthioalkyl, alkylsulfinylalkyl, alkylsulfonylalkyl in which the total number of carbon atoms is 2 or 3; R2 = H, alkyl, alkoxymethyl, benzyloxymethyl in which Ph ring is optionally substituted with alkoxy; R3, R4 = H, alkyl, alkenyl, alkynyl; CR3R4 = (un)substituted 3-4 membered carbocyclic ring optionally containing one O, S or N atom; R5 = H, (un)substituted alkyl, cycloalkyl, Ph, thienyl, CH2Ph], were prepared E.g., a multi-step synthesis of I [X, Z = Cl; Y = H; R1 = CH2OMe; R2 = H; R3-R5 = Me] which showed at least 70% control of the following fungal infections at 200 ppm: Phytophthora infestans, Plasmopara viticola, Erysiphe graminis f.sp. hordei, and at least 70% control at 20 ppm against Pythium ultimum, was given.

IT 701915-84-6P 701915-85-7P 701915-86-8P

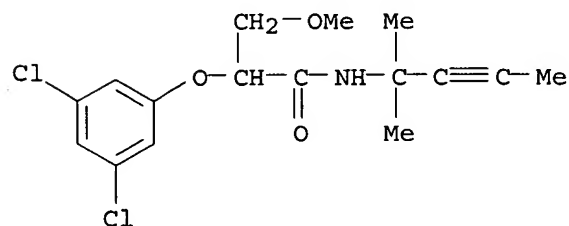
701915-87-9P 701915-88-0P 701915-89-1P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N-alkynyl-2-(substituted phenoxy) alkylamides as fungicides)

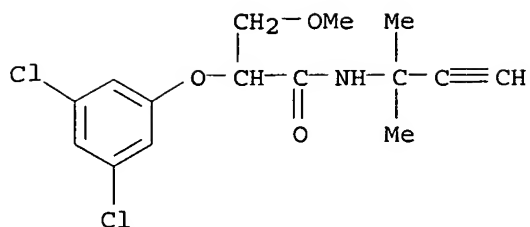
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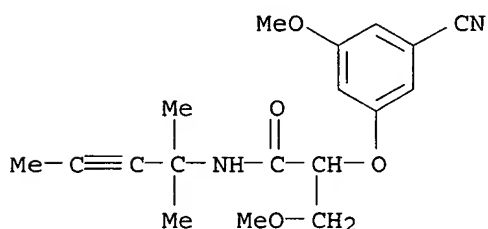
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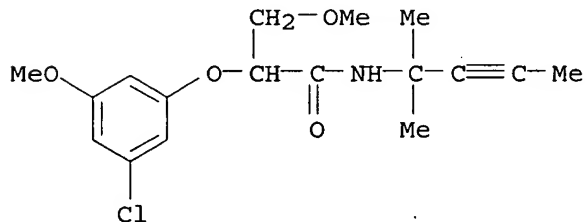
RN 701915-86-8 CAPLUS

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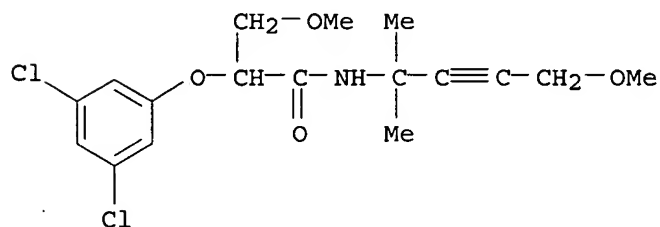
RN 701915-87-9 CAPLUS

CN Propanamide, 2-(3-chloro-5-methoxyphenoxy)-N-(1,1-dimethyl-2-butynyl)-3-methoxy- (9CI) (CA INDEX NAME)



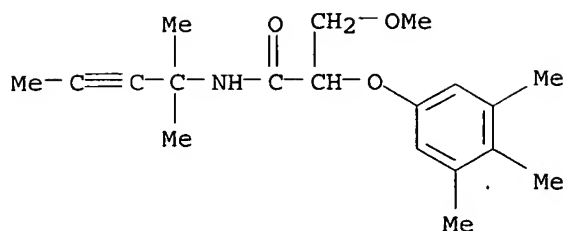
RN 701915-88-0 CAPLUS

CN Propanamide, 2-(3,5-dichlorophenoxy)-3-methoxy-N-(4-methoxy-1,1-dimethyl-2-butynyl)- (9CI) (CA INDEX NAME)



RN 701915-89-1 CAPLUS

CN Propanamide, N-(1,1-dimethyl-2-butynyl)-3-methoxy-2-(3,4,5-trimethylphenoxy)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L43 ANSWER 2 OF 4 MARPAT COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 142:56290 MARPAT

TITLE: Preparation of N-alkynyl-2-heteroaryloxyalkylamides as agrochemical fungicides

INVENTOR(S): Salmon, Roger; Crowley, Patrick Jelf

PATENT ASSIGNEE(S): Syngenta Limited, UK

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

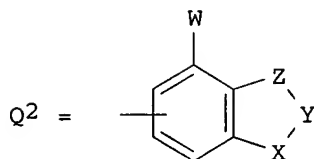
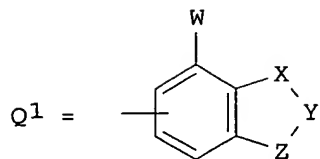
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

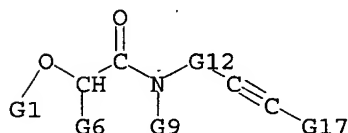
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EP 1633730	A1	20060315	EP 2004-735275	20040528
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1798743	A	20060705	CN 2004-80015282	20040528
BR 2004011040	A	20060711	BR 2004-11040	20040528
PRIORITY APPLN. INFO.:			GB 2003-12864	20030604
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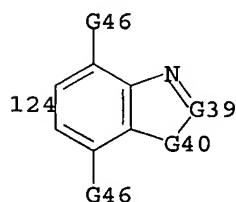


AB HetOCHR1CONR2CR3R4C.tplbond.CR5 [Het = Q<sup>1</sup>, Q<sup>2</sup>; W = H, halo, alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkyl, haloalkoxy, haloalkylthio, haloalkylsulfinyl, haloalkylsulfonyl, cyano, NO<sub>2</sub>; X = N, NH, NA; A = alkyl; Y, Z = CR, N, NH, NA, O, S; R = H, halo, alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkyl, haloalkoxy, haloalkylthio, haloalkylsulfinyl, haloalkylsulfonyl, alkylamino; R<sub>1</sub> = alkoxy, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, alkylthioalkyl, alkylsulfinylalkyl, alkylsulfonylalkyl; R<sub>2</sub> = H, alkyl, alkoxymethyl, (alkoxy)benzyloxymethyl; R<sub>3</sub>, R<sub>4</sub> = H, alkyl, alkenyl, alkynyl; R<sub>3</sub>R<sub>4</sub>C = atoms to form a (substituted) 3-4 membered ring optionally containing 1 O, S, or N atom; R<sub>5</sub> = H, (substituted) alkyl, cycloalkyl, Ph, thienyl, PhCH<sub>2</sub>, etc.; with provisos], were prepared Thus, 6-hydroxybenzothiazole (preparation given), 2-bromo-N-(4-methylpent-2-yn-4-yl)butyramide (preparation given) and K<sub>2</sub>CO<sub>3</sub> were stirred together in DMF at 90° for 6 h to give 2-(6-benzothiazolyloxy)-N-(4-methylpent-2-yn-4-yl)butyramide. Several title compds. at 200 ppm gave ≥60% control of Erysiphe graminis, Phytophthora infestans, and Plasmopara viticola.

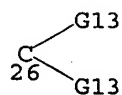
MSTR 1



G1 = 124



G6 = alkyl <containing 1-4 C>  
(opt. substd. by 1 or more G7)  
G7 = alkoxycarbonyl <containing 1-4 C>  
G12 = 26



G46 = CN

Patent location: claim 1

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L43 ANSWER 3 OF 4 MARPAT COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 141:38428 MARPAT

TITLE: Preparation of N-alkynyl-2-(substituted phenoxy) alkylamides as fungicides

INVENTOR(S): Salmon, Roger; Crowley, Patrick Jelf; Bacon, David Philip

PATENT ASSIGNEE(S): Syngenta Limited, UK

SOURCE: PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

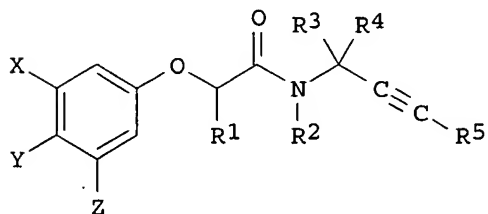
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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AU 2003280948	A1	20040618	AU 2003-280948	20031110
EP 1567479	A1	20050831	EP 2003-772418	20031110
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003016565	A	20051004	BR 2003-16565	20031110
CN 1714073	A	20051228	CN 2003-80103405	20031110
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PRIORITY APPLN. INFO.:			GB 2002-27551	20021126
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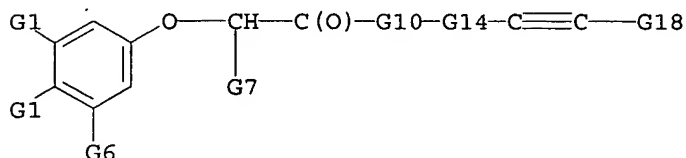
GI



AB The title compds. [I; X, Y, Z = H, halo, alkyl, etc.; R1 = alkyl, alkenyl, alkynyl in which all three groups are optionally substituted on their terminal carbon atom; R2 = H, alkyl, alkoxymethyl, benzyloxymethyl in which Ph ring is optionally substituted with alkoxy; R3, R4 = H, alkyl,

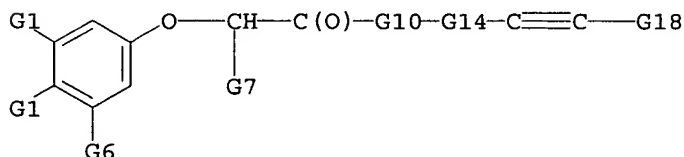
alkenyl, alkynyl; CR3R4 = (un)substituted 3-4 membered carbocyclic ring optionally containing one O, S or N atom; R5 = H, (un)substituted alkyl, cycloalkyl, Ph, thienyl, CH2Ph; with the provisos], were prepared E.g., a multi-step synthesis of I [X, Z = Cl; Y = H; R1 = Et; R2 = H; R3, R4 = Me; R5 = CH2OH] which gave more than 60% control of the following fungal infections at 200 ppm: *Phytophthora infestans*, *Plasmopara viticola*, *Erysiphe graminis* f.sp. *hordei*, and more than 60% control at 20 ppm against *Pythium ultimum*, was given.

# MSTR 1A



G1 = CN  
G7 = carbon chain <containing 1-4 C,  
0 or more double bonds, 0 or more triple bonds>  
(opt. substd. by 1 or more G8)  
G8 = alkoxy carbonyl <containing 1-4 C>  
G10 = NH  
G14 = CMe2  
Patent location: claim 1  
Note: substitution is restricted

# MSTR 1B



G1 = CN  
G7 = carbon chain <containing 1-4 C,  
0 or more double bonds, 0 or more triple bonds>  
(opt. substd. by 1 or more G8)  
G8 = alkoxy carbonyl <containing 1-4 C>  
G10 = NH  
G14 = CMe2  
Patent location: claim 1  
Note: substitution is restricted

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

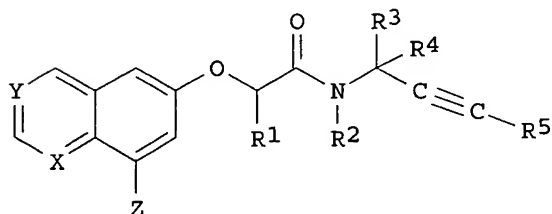
L43 ANSWER 4 OF 4 MARPAT COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 141:2846 MARPAT  
TITLE: Preparation of quinoline-, isoquinoline-, and quinazolinooxyalkylamides as fungicides  
INVENTOR(S): Crowley, Patrick Jelf; Salmon, Roger



PATENT ASSIGNEE(S): Syngenta Limited, UK  
 SOURCE: PCT Int. Appl., 73 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

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EP 1567010	A1	20050831	EP 2003-811792	20031027
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CN 1717175	A	20060104	CN 2003-80104073	20031027
<u>JP 2006507339</u>	T2	20060302	<u>JP 2004-554637</u>	20031027
<u>US 2006019973</u>	A1	20060126	<u>US 2005-536475</u>	20050525
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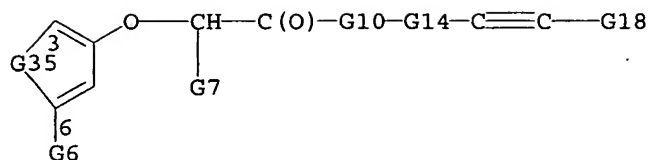
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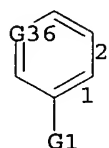
I

AB The title compds. I [one of X and Y is N or N oxide and the other is CR or both of X and Y are N; Z = H, halo, (halo)alkyl, etc.; R1 = (un)substituted alkyl, alkenyl, alkynyl, etc.; R2 = H, alkyl, alkoxyethyl or (phenyl)benzyloxymethyl; R3,R4 = H alkyl, alkenyl or alkynyl; R3R4 = (un)substituted carbocyclyl, optionally containing O, S or N heteroatoms; R5 = H, (un)substituted (cyclo)alkyl, etc.] are prepared as fungicides.

MSTR 1A

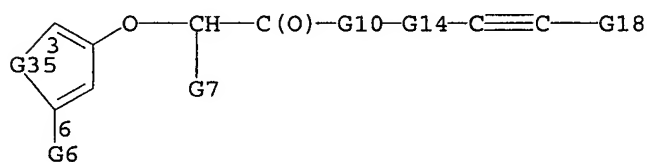


- G6 = cycloalkyl <containing 3-6 C>  
(opt. substd. by 1 or more G2)  
G7 = carbon chain <containing 1-4 C,  
0 or more double bonds, 0 or more triple bonds>  
(opt. substd. by 1 or more G8)  
G8 = alkoxycarbonyl <containing 1-4 C>  
G10 = NH  
G14 = CMe2  
G35 = 2-3 1-6

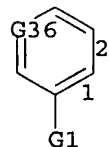


Patent location: claim 1  
Note: substitution is restricted

# MSTR 1B



- G6 = cycloalkyl <containing 3-6 C>  
(opt. substd. by 1 or more G2)  
G7 = carbon chain <containing 1-4 C,  
0 or more double bonds, 0 or more triple bonds>  
(opt. substd. by 1 or more G8)  
G8 = alkoxycarbonyl <containing 1-4 C>  
G10 = NH  
G14 = CMe2  
G35 = 2-3 1-6



Patent location: claim 1  
Note: substitution is restricted

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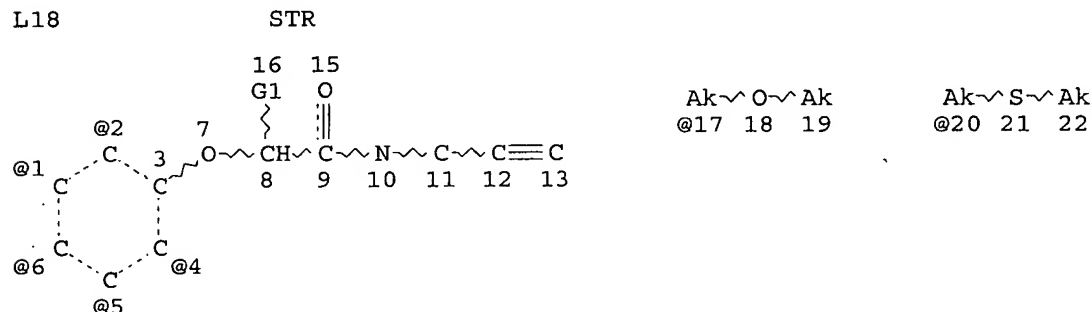
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THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS  
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MOST RECENT DERWENT UPDATE: 200657 <200657/DW>  
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> PLEASE BE AWARE OF THE NEW IPC REFORM IN 2006, SEE  
[http://www.stn-international.de/stndatabases/details/ipc\\_reform.html](http://www.stn-international.de/stndatabases/details/ipc_reform.html) and  
<http://scientific.thomson.com/media/scpdf/ipcrdwpi.pdf> <<<

>>> FOR FURTHER DETAILS ON THE FORTHCOMING DERWENT WORLD PATENTS  
INDEX ENHANCEMENTS PLEASE VISIT:  
[http://www.stn-international.de/stndatabases/details/dwpi\\_r.html](http://www.stn-international.de/stndatabases/details/dwpi_r.html) <<<  
'BI ABEX' IS DEFAULT SEARCH FIELD FOR 'WPXI' FILE



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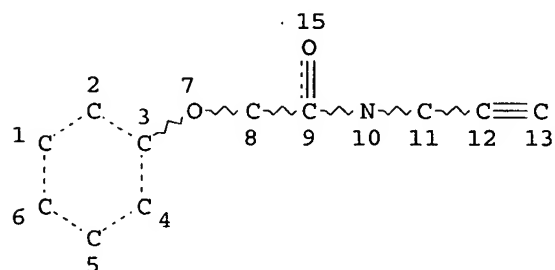
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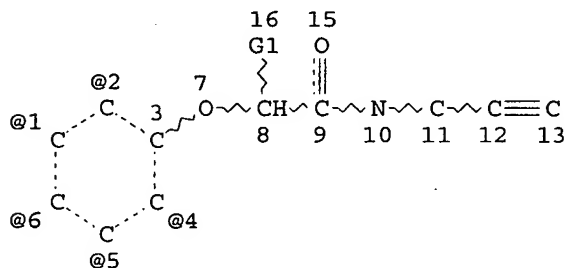
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NODE ATTRIBUTES:

NSPEC IS RC AT 11  
NSPEC IS RC AT 23  
CONNECT IS E2 RC AT 17  
CONNECT IS E1 RC AT 19  
CONNECT IS E2 RC AT 20  
CONNECT IS E1 RC AT 22  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE

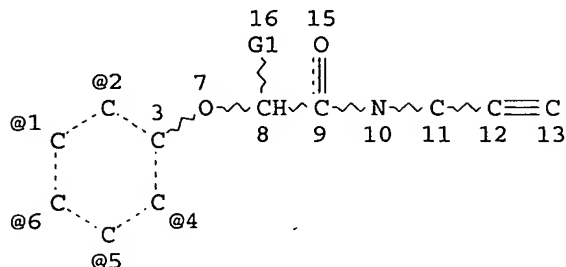
L20 6 SEA FILE=REGISTRY SUB=L15 SSS FUL L18

100.0% PROCESSED 157 ITERATIONS  
 SEARCH TIME: 00.00.01

6 ANSWERS

L32

STR



Ak~O~Ak  
 @17 18 19

Ak~S~Ak  
 @20 21 22

A @23

VAR G1=17/20  
 VPA 23-1/2/4/5/6 U  
 NODE ATTRIBUTES:  
 NSPEC IS RC AT 11  
 NSPEC IS RC AT 23  
 CONNECT IS E2 RC AT 17  
 CONNECT IS E1 RC AT 19  
 CONNECT IS E2 RC AT 20  
 CONNECT IS E1 RC AT 22  
 DEFAULT MLEVEL IS ATOM  
 MLEVEL IS CLASS AT 17 19 20 22 23  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE  
 L34 8 SEA FILE=MARPAT SSS FUL L32  
 L35 4 SEA FILE=MARPAT ABB=ON L34/COMPLETE

(FILE 'HOME' ENTERED AT 10:58:39 ON 11 SEP 2006)

FILE 'CAPLUS, AGRICOLA, CABA, BIOSIS, WPIX' ENTERED AT 10:59:32 ON 11 SEP 2006

L1 940 SEA ABB=ON SALMON R?/AU  
 L2 35 SEA ABB=ON LANGTON D?/AU  
 L3 610 SEA ABB=ON CROWLEY P?/AU  
 L4 235290 SEA ABB=ON FUNGICID? OR FUNGISTAT?  
 L5 5 SEA ABB=ON L1 AND L2  
 L6 39 SEA ABB=ON L1 AND L3  
 L7 37 SEA ABB=ON L1 AND L3 AND L4  
 L8 5880738 SEA ABB=ON PLANT#  
 L9 18 SEA ABB=ON L1 AND L3 AND L4 AND L8

FILE 'REGISTRY' ENTERED AT 11:01:41 ON 11 SEP 2006

L10 STR  
L11 16 SEA SSS SAM L10  
D SCAN

FILE 'CAPLUS' ENTERED AT 11:04:45 ON 11 SEP 2006

L12 16 SEA ABB=ON L11

FILE 'REGISTRY' ENTERED AT 11:04:49 ON 11 SEP 2006

L13 STR L10  
L14 1 SEA SSS SAM L13  
D QUE L10  
L15 261 SEA SSS FUL L10  
SAVE TEMP L15 PRY518FULL/A  
L16 STR L13  
L17 1 SEA SUB=L15 SSS SAM L16  
L18 STR L10  
L19 0 SEA SUB=L15 SSS SAM L18  
L20 6 SEA SUB=L15 SSS FUL L18  
SAVE TEMP L20 PRY517SUB/A  
D LC 1-6

FILE 'MARPAT' ENTERED AT 11:15:55 ON 11 SEP 2006

L21 0 SEA SSS SAM L18  
L22 7 SEA SSS FUL L18  
L23 3 SEA ABB=ON L22/COMPLETE  
SAVE TEMP L23 PRY517MARPA/A

FILE 'REGISTRY' ENTERED AT 11:17:32 ON 11 SEP 2006

L24 STR L10  
L25 1 SEA SUB=L15 SSS SAM L24  
D SCAN  
L26 9 SEA SUB=L15 SSS FUL L24  
SAVE TEMP L26 PRY518SUB/A  
L27 STR L24  
L28 1 SEA SSS SAM L27

FILE 'MARPAT' ENTERED AT 11:20:26 ON 11 SEP 2006

L29 0 SEA SSS SAM L27  
L30 10 SEA SSS FUL L27  
L31 6 SEA ABB=ON L30/COMPLETE  
SAVE TEMP L31 PRY518MARPA/A  
D QUE L23  
L32 STR L18  
L33 0 SEA SSS SAM L32  
L34 8 SEA SSS FUL L32  
L35 4 SEA ABB=ON L34/COMPLETE  
SAVE TEMP L35 PRY517MARPA/A

FILE 'WPIX' ENTERED AT 11:23:42 ON 11 SEP 2006

L36 20 SEA SSS SAM L10  
D QUE NOS L20  
L37 0 SEA SSS SAM L18  
L38 0 SEA SSS FUL L18  
SAVE TEMP L38 PRY517WPI/A  
D QUE NOS L26  
L39 0 SEA SSS SAM L24  
L40 0 SEA SSS FUL L24  
SAVE TEMP L40 PRY518WPI/A



FILE 'STNGUIDE' ENTERED AT 11:25:24 ON 11 SEP 2006

FILE 'CAPLUS, AGRICOLA, CABA, BIOSIS, WPIX' ENTERED AT 11:25:58 ON 11 SEP 2006

L41 D QUE L5  
3 DUP REM L5 (2 DUPLICATES REMOVED)  
ANSWERS '1-2' FROM FILE CAPLUS  
ANSWER '3' FROM FILE WPIX  
D IALL 1-3

FILE 'REGISTRY' ENTERED AT 11:26:32 ON 11 SEP 2006  
D STAT QUE L20

L42 FILE 'CAPLUS' ENTERED AT 11:26:41 ON 11 SEP 2006  
1 SEA ABB=ON L20

FILE 'MARPAT' ENTERED AT 11:27:08 ON 11 SEP 2006  
D STAT QUE L35

L43 FILE 'CAPLUS, MARPAT' ENTERED AT 11:27:14 ON 11 SEP 2006  
4 DUP REM L42 L35 (1 DUPLICATE REMOVED)  
ANSWER '1' FROM FILE CAPLUS  
ANSWERS '2-4' FROM FILE MARPAT  
D IBIB ED ABS HITSTR 1  
D IBIB ABS QHIT 2-4

FILE 'WPIX' ENTERED AT 11:28:21 ON 11 SEP 2006  
D STAT QUE L38

FILE 'HOME' ENTERED AT 11:28:22 ON 11 SEP 2006  
D STAT QUE L20  
D STAT QUE L35

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